

The Story of Carborundum.

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G O L D W Y N

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Rough Stuff---but we're going
to treat it gently, for it
reads like a fairy tale.
Carborundum, the hardest
sharpest material in the world
made from Coke, Sand, Sawdust
and Salt;

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And so the mighty waters
of Niagara are harnessed
to generate the heat for
mammoth electric furnaces
in which carborundum is "baked"

But let us pause a
moment here---How many
of us recollect the grindstone
on the old farm?

Such was the day of the
grindstone which carborundum
is fast replacing so now
we'll begin our "Rough"
journey.

Loading Coke, Sand, Sawdust
and Salt into the electric
furnace,

A burning furnace.
It is in this terrific heat of
six thousand degrees that
carborundum is created.

At the end of 36 hours---
during which time enough
electric energy has been
consumed to operate an
electric light for 220 years---
the furnace is "pulled"

When the furnace has cooled, the masses of carborundum crystals are removed to the crushers.

Sparkling and glittering in the Sun like the shattered jewels of some fallen Monarch.

Immense iron wheels crush the crystal masses, producing individual grains of carborundum.

And now the grains are ready for sorting, which is done by "Sieving" as the grains are passed through screens of varying coarseness.

It is now necessary to bind the grains together in order that they may be shaped into grinding wheels, drills, hones, etc.

So a bonding agent of clay is mixed with the carborundum grains in a tumbling barrel.

Or the clay and the grains are churned very wet in basins, a process not unlike the making of mud pies.

A carborundum wheel is made by a pressing process. The grain and the bond, slightly moistened, are subjected to a pressure of 904,000 pounds.

Or by the puddling process in which the grain and bond are poured into moulds and allowed to dry and stiffen.

And then turned down to shape on a potter's wheel.

CARBORUNDUM TITLES - CONT'D.

Moulding tiny wheels by hand.
These are the little wheels that
buzz so pleasantly when the
dentist is grinding your teeth.

Sharpening stones are pressed
to accurate shape and size.

Now the materials are ready
for the "bake shop" or kiln
room where they bake for
two weeks at high temperature.

Removed from the kilns, the
wheels are carefully inspected
and trued and given a speed test.

Carborundum performs a wealth
of service, on the farm, in the
shop and in the home.

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